2014 AERIS Workshop: Moving Toward Deployment

Holiday Inn Hotel: 550 C Street SW - Washington, DC 20024 – October 22, 2014

The United States Department of Transportation (USDOT) ITS Joint Program Office (ITS JPO) is sponsoring a one-day workshop in Washington, D.C. on October 22, 2014. **The purpose of the workshop is to engage the stakeholder community on discussion around environmental connected vehicle applications that may be good candidates for the near-term deployment.** The workshop includes an overview of the upcoming Connected Vehicle Pilots efforts as one possible venue for addressing environmental issues and to deploy environmental applications to meet performance targets related to fuel consumption or emissions. The workshop will cover AERIS modeling and prototyping efforts as well as an overview of sustainability projects currently deployed using conventional intelligent transportation systems. Using these building blocks, the AERIS team will conduct break-out sessions with workshop participants to brainstorm connected vehicle applications that have the potential to provide near-term fuel use and emissions reductions.

Agenda: Wednesday October 22, 2014

1. **Opening Remarks and Introduction to the Workshop:** Introduction to the workshop, its objective, and an overview of the agenda. **Marcia Pincus** *(ITS JPO)*	9:00 am – 9:10 am

2. **CV Pilots and Opportunities for Environmental Applications:** Overview of the USDOT's Connected Vehicle Pilots initiative and opportunities for environmental applications that may be good candidates for the near-term deployment.
 • Overview of the USDOT's Connected Vehicle Pilots
    Carl Andersen *(FHWA)*
 • Regional Unified Model Architecture
    Walt Fehr *(ITS JPO)*
 • Opportunities for Environmental Applications for Near-Term Deployment
    Marcia Pincus *(ITS JPO)*
 • Questions and Answers
	9:10 am – 10:15 am

3. **Environmental Benefits from AERIS Modeling:** Review of fuel savings reductions and emissions reductions from modeling AERIS applications. **Sean Fitzgerel** *(Booz Allen Hamilton)* • **Eco-Signal Operations:** Uses connected vehicle technologies to decrease fuel consumption and decrease emissions by improving traffic flow at signalized intersections. • **Eco-Lanes:** Dedicated freeway lanes – similar to managed lanes – optimized for the environment that encourage use from vehicles operating in eco-friendly ways. • **Low Emissions Zones:** Geographically defined areas that seek to incentivize "green transportation choices" or restrict specific categories of high-polluting vehicles from entering the zone to improve the air quality within the geographic area.	10:15 am – 11:00 am

4. Break	11:00 am – 11:15 am
5. Real-World Environmental Applications • Tour of the World: Environmental Applications **J.D. Schneeberger** *(Noblis)* • FHWA's GlidePath Project: Prototype Eco-Approach and Departure at Signalized Intersections Application with Automated Longitudinal Control Capabilities **Osman Altan** *(FHWA)* • Sharing Traffic Signal Timing with Vehicles: A Non-DSRC Survey **Adrian Guan** *(ITS America)*	11:15 am – 12:00 am
6. Lunch	**12:00 pm – 1:00 pm**
7. Real-World Environmental Activities: An expert panel will present on environmental deployments and research. • Matt Lesh – Federal Transit Administration (FTA) • Stephen Smith – Carnegie Mellon University • Matt Barth – University of California, Riverside • Hesham Rakha – Virginia Tech • Adam Cohen – University of California, Berkeley • Jacob Ward – Department of Energy (DOE)	1:00 pm – 2:45 pm
8. Panel Discussion / Open Discussion – All	2:45 pm – 3:00 pm
9. Break-out Sessions – Brainstorming Candidate Connected Vehicle Environmental Applications: Using challenges identified earlier, participants will identify candidate connected vehicle applications that may be deployed in the near-term to reduce fuel consumption and emissions.	3:00 pm – 4:15 pm
10. Break	4:15 pm – 4:30 pm
11. Key Takeaways from Break-out Sessions: Facilitators will present the key takeaways from the break-out sessions to the group.	4:30 pm – 4:50 pm
12. Wrap-up and Closing Remarks: What's next? **Marcia Pincus** *(ITS JPO)*	4:50 pm – 5:00 pm